

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

26 MAY 2005

(43) International Publication Date
10 June 2004 (10.06.2004)

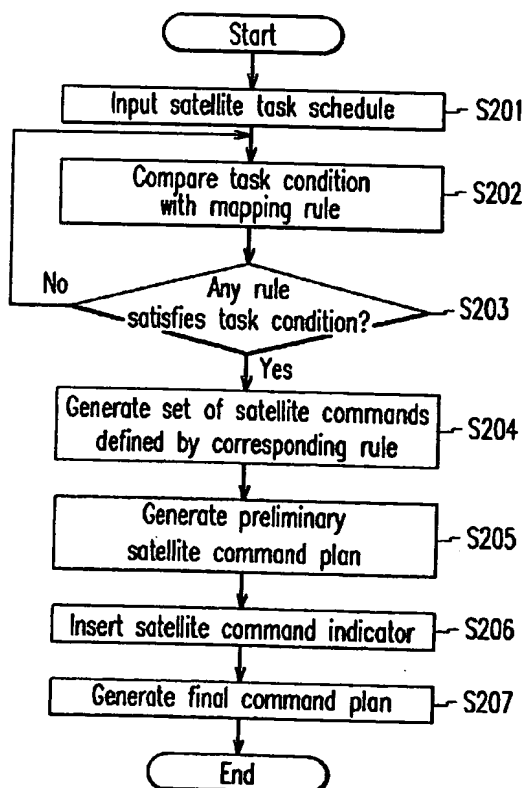
PCT

(10) International Publication Number
WO 2004/048197 A1

- (51) International Patent Classification⁷: B64G 3/00, H04B 7/185
- (21) International Application Number: PCT/KR2003/001973
- (22) International Filing Date: 26 September 2003 (26.09.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 10-2002-0074682
28 November 2002 (28.11.2002) KR
- (71) Applicant (for all designated States except US): ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE [KR/KR]; 161, Gajeong-dong, Yuseong-gu, Daejeon 305-350 (KR).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): LEE, Byoung-Sun [KR/KR]; Hanwool Apt. 102-1405, Sinseong-dong, Yuseong-gu, Daejeon-city 305-707 (KR). LEE, Jeong-Sook [KR/KR]; Sangroksoo Apt. 106-1205, Mannyun-dong, Seo-gu, Daejeon-city 302-781 (KR). MO, Hee-Sook [KR/KR]; Sangroksoo Apt. 108-1004, Mannyun-dong, Seo-gu, Daejeon-city 302-781 (KR). KIM, Jae-Hoon [KR/KR]; Hanvit Apt. 109-1303, Eoeun-dong, Yuseong-gu, Daejeon-city 305-755 (KR). LEE, Seong-Pal [KR/KR]; Narae Apt. 109-602, Jeonmin-dong, Yuseong-gu, Daejeon-city 305-729 (KR).
- (74) Agent: YOU ME PATENT AND LAW FIRM; Teheran Bldg., 825-33, Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,

[Continued on next page]

(54) Title: LOW EARTH ORBIT SATELLITE COMMAND PLANNING DEVICE AND METHOD, AND LOW EARTH ORBIT SATELLITE CONTROL SYSTEM INCLUDING THE SAME



(57) **Abstract:** Disclosed is a command planning apparatus of a low-earth orbit satellite, and a low-earth orbit satellite control system including the same. The present invention automates the process of executing the command plan for converting the satellite task schedule planned on the ground into telecommands available by the satellite in the low-earth orbit satellite control system, and automatically selects a data set established by the parameters related to the execution task of the satellite according to the mapping rule.